

**ABSTRACT OF THE DISCLOSURE**

A method and system are disclosed that correct pixel values for output on a video display utilizing gamma correction. The method provides improved gamma correction by determining a first range of pixel values to be displayed on the video display and then determining a second range of pixel values to be displayed on the same display. Next, the method determines a first level of gamma correction to be provided for the first range of pixel values. This first level of gamma correction is provided at a first level of precision. Next, the method provides a second level of gamma correction to the second range of pixel values at a second level of precision. The second level of precision is different than that of the first level and is typically less than the first level.

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